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Gregor Mendel "Father of genetics" born in Austria (Czech Republic)  
-priest  
-botany - pea plants

### Mendel's Data

P1: Tall x Short

Offspring  $\rightarrow$  75% tall 25% Short

I predict this because the tall allele is the dominant one, while the short is the recessive allele

F1: Tall  $\rightarrow$  Tall x Tall

What will the offspring be if I cross 2 of these plants?

-To experiment, I would cross breed 2 of the F1 plants and see what their offspring were.

F2: Tall x Tall

The offspring will be a mixture of tall and short plants because the parents had both alleles.

They are what I predicted because the plant would only be short plants if it received both short alleles from the parents, which only occurs 25% of the time

It disappeared because it was the recessive allele and it was overtaken by the dominant allele. Then it came back because it was partnered with another of the same allele.

	T	S
T	TT	TS
S	TS	SS